ELSEVIER

Surface Science 351 (1996) 333–334

surface science

Author index

Akbulut, M., N.J. Sack and T.E. Madey, Adsorption and reaction of water on oxidized tungsten: thermal desorption and electron stimulated desorption measurements 351 (1996) 209
Anazawa, T., see Tokumitsu 351 (1996) 165
Aray, Y. and R.F.W. Bader, Requirements for activation of surface oxygen atoms in MgO using the Laplacian of the electron density 351 (1996) 233
Asscher, M., see Livneh 351 (1996) 250

Bader, R.F.W., see Aray 351 (1996) 233
Baer, D.R., see Liang 351 (1996) 172
Baer, R., see Citri 351 (1996) 24
Bechstedt, F., see Schmidt 351 (1996) 183
Bleckmann, L., O. Hunderi, W. Richter and E. Wold, Surface studies by means of 45° reflectometry 351 (1996) 277
Bradshaw, A.M., see Fernandez 351 (1996) 1

Cao, P.L., see Radny 351 (1996) 75
Chakarova, R., Monte Carlo model of electron elastic scattering in solids 351 (1996) 303
Citri, O., R. Baer and R. Kosloff, The role of non adiabatic mechanisms in the dissociation dynamics of O_2 on silver surfaces 351 (1996) 24

Davis, R., see Fernandez 351 (1996) 1
DePristo, A., see Li 351 (1996) 189
Doi, T., M. Ichikawa, S. Hosoki and K. Ninomiya, Surface migration of Si atoms based on the kinetics of a Si microcluster on a Si(001) surface 351 (1996) 135
Dudarev, S.L., see Peng 351 (1996) L245

Edamoto, K., see Tokumitsu 351 (1996) 165
Eisenmenger, W., see Strohmaier 351 (1996) 292
Engelhard, M.H., see Liang 351 (1996) 172
Erley, W., see Gilarowski 351 (1996) 156

Fernandez, V., K.-M. Schindler, O. Schaff, Ph. Hofmann, A. Theobald, A.M. Bradshaw, V. Fritzsche, R. Davis and D.P. Woodruff, Structure determination of a CO/O coadsorption phase on Ni(111) 351 (1996) 1
Flowers, M.C., N.B.H. Jonathan, A. Morris and S. Wright, The adsorption and reactions of water on Si(100)-2 × 1 and Si(111)-7 × 7 surfaces 351 (1996) 87
Fritzsche, V., see Fernandez 351 (1996) 1
Fukuda, T., Random adatom heights in Ge/Si(111)-5 × 5 surfaces 351 (1996) 103

Garfunkel, E., see Lu 351 (1996) 111
Gilarowski, G., W. Erley and H. Ibach, Photochemical reactions of water adsorbed on Pt(111) 351 (1996) 156
Glebov, A., J.P. Toennies and H. Weiss, Structural and vibrational properties of the carbonyl sulfide (OCS) covered NaCl(100) surface 351 (1996) 200
Gompf, B., see Strohmaier 351 (1996) 292
Gusev, E.P., see Lu 351 (1996) 111
Gustafsson, T., see Lu 351 (1996) 111

Hofmann, Ph., see Fernandez 351 (1996) 1
Hosoki, S., see Doi 351 (1996) 135
Hunderi, O., see Bleckmann 351 (1996) 277

Ibach, H., see Gilarowski 351 (1996) 156
Ichikawa, M., see Doi 351 (1996) 135
Inaoka, T., Carrier-concentration dependence of plasmon–polar phonon coupling at semiconductor surfaces 351 (1996) 259

Jonathan, N.B.H., see Flowers 351 (1996) 87

Kageshima, H. and M. Tabe, Theoretical calculation of core level shifts for O/Si(111) surfaces 351 (1996) 53
Kato, H., K. Sawabe and Y. Matsumoto, Adsorbed states and thermal reactions of N_2O on Si(100) below room temperature: desorption induced by dissociation 351 (1996) 43
Kato, H., see Tokumitsu 351 (1996) 165
Kawamura, T., Multiple scattering calculation of RHEED from growth Si(001) surfaces 351 (1996) 129
Kim, J.W., J.M. Seo and S. Kim, Surface electronic properties of Na/Ge(111)-3 × 1 351 (1996) L239
Kim, S., see Kim 351 (1996) L239
Kosloff, R., see Citri 351 (1996) 24

Lea, A.S., see Liang 351 (1996) 172
Li, L. and I.S.T. Tsong, Atomic structures of 6H–SiC (0001) and $(000\bar{1})$ surfaces 351 (1996) 141
Li, T. and R.J. MacDonald, Inelastic energy loss and inner-shell electron promotion in low energy Ne ions scattered from Fe and Ni surfaces 351 (1996) 319
Li, Y. and A. DePristo, Predicted growth mode for metal homoepitaxy on the fcc (111) surface 351 (1996) 189
Liang, Y., A.S. Lea, D.R. Baer and M.H. Engelhard, Structure of the cleaved $CaCO_3(10\bar{1}4)$ surface in an aqueous environment 351 (1996) 172

Livneh, T., L. Romm and M. Asscher, Cage formation of N_2 under H_2O overlayer on Ru(001) 351 (1996) 250
Lu, H.C., E.P. Gusev, E. Garfunkel and T. Gustafsson, An ion scattering study of the interaction of oxygen with Si(111): surface roughening and oxide growth 351 (1996) 111
Ludwig, C., see Strohmaier 351 (1996) 292

MacDonald, R.J., see Li 351 (1996) 319
Madey, T.E., see Akbulut 351 (1996) 209
Mahmood, W., see Schwaner 351 (1996) 228
Matsumoto, Y., see Kato 351 (1996) 43
Miyazaki, E., see Tokumitsu 351 (1996) 165
Morris, A., see Flowers 351 (1996) 87

Ninomiya, K., see Doi 351 (1996) 135

Otani, S., see Tokumitsu 351 (1996) 165

Peng, L.-M., S.L. Dudarev and M.J. Whelan, Bethe potentials in dynamical RHEED calculations 351 (1996) L245
Petersen, J., see Strohmaier 351 (1996) 292

Radny, M.W., P.V. Smith and P.L. Cao, Chemisorption of fluorine onto the cluster modelled Si(111)7 × 7 surface: an ab initio Hartree–Fock/DFT study 351 (1996) 75
Richter, W., see Bleckmann 351 (1996) 277
Romm, L., see Livneh 351 (1996) 250

Sack, N.J., see Akbulut 351 (1996) 209
Sakai, H., Surface-induced melting of small particles 351 (1996) 285
Sawabe, K., see Kato 351 (1996) 43
Schaff, O., see Fernandez 351 (1996) 1
Schindler, K.-M., see Fernandez 351 (1996) 1
Schmidt, W.G., A. Scholze and F. Bechstedt, Dimerized, buckled, or ideal chains on the diamond (111)2 × 1 surface? 351 (1996) 183
Scholze, A., see Schmidt 351 (1996) 183
Schwaner, A.L., W. Mahmood and J.M. White, The thermal and electron-induced chemistry of N_2O/Ag(111) 351 (1996) 228
Sekine, R., see Tokumitsu 351 (1996) 165
Seo, J.M., see Kim 351 (1996) L239
Shklyaev, A.A. and T. Suzuki, Initial reactive sticking coefficient of O_2 on Si(111)-7 × 7 at elevated temperatures 351 (1996) 64
Smith, P.V., see Radny 351 (1996) 75
Strohmaier, R., C. Ludwig, J. Petersen, B. Gompf and W. Eisenmenger, STM investigations of NTCDA on weakly interacting substrates 351 (1996) 292
Suzuki, T., see Shklyaev 351 (1996) 64

Tabe, M., see Kageshima 351 (1996) 53
Tanabe, A., see Tokumitsu 351 (1996) 165
Theobald, A., see Fernandez 351 (1996) 1
Toennies, J.P., see Glebov 351 (1996) 200
Tokumitsu, S., T. Anazawa, A. Tanabe, R. Sekine, E. Miyazaki, K. Edamoto, H. Kato and S. Otani, Interaction of hydrogen with ZrC(111) surface: angle-resolved photoemission study351 (1996) 165
Tomková, E., TDS spectra analysis 351 (1996) 309
Tsong, I.S.T., see Li 351 (1996) 141

Voigtländer, B. and A. Zinner, Structure of the Stranski–Krastanov layer in surfactant-mediated Sb/Ge/Si(111) epitaxy 351 (1996) L233

Watanabe, S., Vibrational study on Si(110) surface hydrogenated in solutions 351 (1996) 149
Weiss, H., see Glebov 351 (1996) 200
Whelan, M.J., see Peng 351 (1996) L245
White, J.M., see Schwaner 351 (1996) 228
Wirth, K.R. and J. Zegenhagen, STM study of the adsorption of single C_{60} molecules on the Ge(111)-c(2 × 8) surface 351 (1996) 13
Wold, E., see Bleckmann 351 (1996) 277
Woodruff, D.P., see Fernandez 351 (1996) 1
Wright, S., see Flowers 351 (1996) 87

Zegenhagen, J., see Wirth 351 (1996) 13
Zinner, A., see Voigtländer 351 (1996) L233

ELSEVIER

Surface Science 351 (1996) 335–339

surface science

Subject index

THEORETICAL METHODS, MODELS AND TECHNIQUES

Ab initio quantum chemical methods and calculations

O. Citri, R. Baer and R. Kosloff, The role of non adiabatic mechanisms in the dissociation dynamics of O_2 on silver surfaces 351 (1996) 24

M.W. Radny, P.V. Smith and P.L. Cao, Chemisorption of fluorine onto the cluster modelled Si(111)7 × 7 surface: an ab initio Hartree–Fock/DFT study 351 (1996) 75

Y. Aray and R.F.W. Bader, Requirements for activation of surface oxygen atoms in MgO using the Laplacian of the electron density 351 (1996) 233

Density functional calculations

H. Kageshima and M. Tabe, Theoretical calculation of core level shifts for O/Si(111) surfaces 351 (1996) 53

W.G. Schmidt, A. Scholze and F. Bechstedt, Dimerized, buckled, or ideal chains on the diamond (111)2 × 1 surface? 351 (1996) 183

Electron density, excitation spectra calculations

T. Inaoka, Carrier-concentration dependence of plasmon–polar phonon coupling at semiconductor surfaces 351 (1996) 259

Electron–solid interactions, scattering, diffraction

L.-M. Peng, S.L. Dudarev and M.J. Whelan, Bethe potentials in dynamical RHEED calculations 351 (1996) L245

V. Fernandez, K.-M. Schindler, O. Schaff, Ph. Hofmann, A. Theobald, A.M. Bradshaw, V. Fritzsche, R. Davis and D.P. Woodruff, Structure determination of a CO/O coadsorption phase on Ni(111) 351 (1996) 1

T. Kawamura, Multiple scattering calculation of RHEED from growth Si(001) surfaces 351 (1996) 129

Equilibrium thermodynamics and statistical mechanics

H. Sakai, Surface-induced melting of small particles 351 (1996) 285

Ion–solid interactions, scattering, channeling

T. Li and R.J. MacDonald, Inelastic energy loss and inner-shell electron promotion in low energy Ne ions scattered from Fe and Ni surfaces 351 (1996) 319

Many body and quasi-particle theories

T. Inaoka, Carrier-concentration dependence of plasmon–polar phonon coupling at semiconductor surfaces 351 (1996) 259

Models of surface chemical reactions

A.A. Shklyaev and T. Suzuki, Initial reactive sticking coefficient of O_2 on Si(111)-7 × 7 at elevated temperatures 351 (1996) 64

M.W. Radny, P.V. Smith and P.L. Cao, Chemisorption of fluorine onto the cluster modelled Si(111)7 × 7 surface: an ab initio Hartree–Fock/DFT study 351 (1996) 75

Y. Aray and R.F.W. Bader, Requirements for activation of surface oxygen atoms in MgO using the Laplacian of the electron density 351 (1996) 233

Models of surface kinetics

M.C. Flowers, N.B.H. Jonathan, A. Morris and S. Wright, The adsorption and reactions of water on Si(100)-2 × 1 and Si(111)-7 × 7 surfaces 351 (1996) 87

T. Kawamura, Multiple scattering calculation of RHEED from growth Si(001) surfaces 351 (1996) 129

Molecular dynamics

O. Citri, R. Baer and R. Kosloff, The role of non adiabatic mechanisms in the dissociation dynamics of O_2 on silver surfaces 351 (1996) 24

W.G. Schmidt, A. Scholze and F. Bechstedt, Dimerized, buckled, or ideal chains on the diamond (111)2 × 1 surface? 351 (1996) 183

Semi-empirical models and model calculations

Y. Li and A. DePristo, Predicted growth mode for metal homoepitaxy on the fcc (111) surface 351 (1996) 189

EXPERIMENTAL SAMPLE PREPARATION AND CHARACTERIZATION METHODS

Atom–solid scattering and diffraction – elastic

A. Glebov, J.P. Toennies and H. Weiss, Structural and vibrational properties of the carbonyl sulfide (OCS) covered NaCl(100) surface 351 (1996) 200

Atom–solid scattering and diffraction – inelastic

A. Glebov, J.P. Toennies and H. Weiss, Structural and vibrational properties of the carbonyl sulfide (OCS) covered NaCl(100) surface 351 (1996) 200

T. Li and R.J. MacDonald, Inelastic energy loss and inner-shell electron promotion in low energy Ne ions scattered from Fe and Ni surfaces 351 (1996) 319

Atomic force microscopy

Y. Liang, A.S. Lea, D.R. Baer and M.H. Engelhard, Structure of the cleaved $CaCO_3(10\bar{1}4)$ surface in an aqueous environment 351 (1996) 172

Auger electron spectroscopy

A.L. Schwaner, W. Mahmood and J.M. White, The thermal and electron-induced chemistry of $N_2O/Ag(111)$ 351 (1996) 228

Desorption induced by electronic transitions (DIET)

Angle resolved DIET (including electron stimulated desorption ion angular distribution (ESDIAD))

M. Akbulut, N.J. Sack and T.E. Madey, Adsorption and reaction of water on oxidized tungsten: thermal desorption and electron stimulated desorption measurements 351 (1996) 209

Electron stimulated desorption (ESD)

M. Akbulut, N.J. Sack and T.E. Madey, Adsorption and reaction of water on oxidized tungsten: thermal desorption and electron stimulated desorption measurements 351 (1996) 209

Electron energy loss spectroscopy

G. Gilarowski, W. Erley and H. Ibach, Photochemical reactions of water adsorbed on Pt(111) 351 (1996) 156

T. Inaoka, Carrier-concentration dependence of plasmon–polar phonon coupling at semiconductor surfaces 351 (1996) 259

Electron microscopy

T. Doi, M. Ichikawa, S. Hosoki and K. Ninomiya, Surface migration of Si atoms based on the kinetics of a Si microcluster on a Si(001) surface 351 (1996) 135

Electron–solid diffraction

L.-M. Peng, S.L. Dudarev and M.J. Whelan, Bethe potentials in dynamical RHEED calculations 351 (1996) L245

Photoelectron diffraction

V. Fernandez, K.-M. Schindler, O. Schaff, Ph. Hofmann, A. Theobald, A.M. Bradshaw, V. Fritzsche, R. Davis and D.P. Woodruff, Structure determination of a CO/O coadsorption phase on Ni(111) 351 (1996) 1

Reflection high-energy electron diffraction (RHEED)

L.-M. Peng, S.L. Dudarev and M.J. Whelan, Bethe potentials in dynamical RHEED calculations 351 (1996) L245

T. Kawamura, Multiple scattering calculation of RHEED from growth Si(001) surfaces 351 (1996) 129

T. Doi, M. Ichikawa, S. Hosoki and K. Ninomiya, Surface migration of Si atoms based on the kinetics of a Si microcluster on a Si(001) surface 351 (1996) 135

Electron–solid scattering and transmission – elastic

R. Chakarova, Monte Carlo model of electron elastic scattering in solids 351 (1996) 303

Ion scattering spectroscopy

Low energy ion scattering (LEIS)

T. Li and R.J. MacDonald, Inelastic energy loss and inner-shell electron promotion in low energy Ne ions scattered from Fe and Ni surfaces 351 (1996) 319

Medium energy ion scattering (MEIS)

H.C. Lu, E.P. Gusev, E. Garfunkel and T. Gustafsson, An ion scattering study of the interaction of oxygen with Si(111): surface roughening and oxide growth 351 (1996) 111

Molecular beam epitaxy

T. Fukuda, Random adatom heights in Ge/Si(111)-5 × 5 surfaces 351 (1996) 103

Non-linear optical methods

Second harmonic generation

A.A. Shklyaev and T. Suzuki, Initial reactive sticking coefficient of O_2 on Si(111)-7 × 7 at elevated temperatures 351 (1996) 64

Photoelectron spectroscopy

J.W. Kim, J.M. Seo and S. Kim, Surface electronic properties of Na/Ge(111)-3 × 1 351 (1996) L239

Angle resolved photoemission

S. Tokumitsu, T. Anazawa, A. Tanabe, R. Sekine, E. Miyazaki, K. Edamoto, H. Kato and S. Otani, Interaction of hydrogen with ZrC(111) surface: angle-resolved photoemission study 351 (1996) 165

X-ray photoelectron spectroscopy

H. Kato, K. Sawabe and Y. Matsumoto, Adsorbed states and thermal reactions of N_2O on Si(100) below room temperature: desorption induced by dissociation 351 (1996) 43

A.L. Schwaner, W. Mahmood and J.M. White, The thermal and electron-induced chemistry of $N_2O/Ag(111)$ 351 (1996) 228

Photon absorption spectroscopy

Infrared absorption spectroscopy

S. Watanabe, Vibrational study on Si(110) surface hydrogenated in solutions 351 (1996) 149

Reflection spectroscopy

L. Bleckmann, O. Hunderi, W. Richter and E. Wold, Surface studies by means of 45° reflectometry 351 (1996) 277

Scanning tunneling microscopy

B. Voigtländer and A. Zinner, Structure of the Stranski–Krastanov layer in surfactant-mediated Sb/Ge/Si(111) epitaxy 351 (1996) L233

K.R. Wirth and J. Zegenhagen, STM study of the adsorption of single C_{60} molecules on the Ge(111)-c(2 × 8) surface 351 (1996) 13
T. Fukuda, Random adatom heights in Ge/Si(111)-5 × 5 surfaces 351 (1996) 103
L. Li and I.S.T. Tsong, Atomic structures of 6H–SiC (0001) and $(000\bar{1})$ surfaces 351 (1996) 141
R. Strohmaier, C. Ludwig, J. Petersen, B. Gompf and W. Eisenmenger, STM investigations of NTCDA on weakly interacting substrates 351 (1996) 292

Scanning tunneling spectroscopies

T. Fukuda, Random adatom heights in Ge/Si(111)-5 × 5 surfaces 351 (1996) 103
R. Strohmaier, C. Ludwig, J. Petersen, B. Gompf and W. Eisenmenger, STM investigations of NTCDA on weakly interacting substrates 351 (1996) 292

Thermal desorption spectroscopy

H. Kato, K. Sawabe and Y. Matsumoto, Adsorbed states and thermal reactions of N_2O on Si(100) below room temperature: desorption induced by dissociation 351 (1996) 43
M.C. Flowers, N.B.H. Jonathan, A. Morris and S. Wright, The adsorption and reactions of water on Si(100)-2 × 1 and Si(111)-7 × 7 surfaces 351 (1996) 87
A. Glebov, J.P. Toennies and H. Weiss, Structural and vibrational properties of the carbonyl sulfide (OCS) covered NaCl(100) surface 351 (1996) 200
M. Akbulut, N.J. Sack and T.E. Madey, Adsorption and reaction of water on oxidized tungsten: thermal desorption and electron stimulated desorption measurements 351 (1996) 209
A.L. Schwaner, W. Mahmood and J.M. White, The thermal and electron-induced chemistry of N_2O/Ag(111) 351 (1996) 228

Work function measurements

J.W. Kim, J.M. Seo and S. Kim, Surface electronic properties of Na/Ge(111)-3 × 1 351 (1996) L239
T. Livneh, L. Romm and M. Asscher, Cage formation of N_2 under H_2O overlayer on Ru(001) 351 (1996) 250

PHENOMENA

Adhesion

Y. Aray and R.F.W. Bader, Requirements for activation of surface oxygen atoms in MgO using the Laplacian of the electron density 351 (1996) 233

Adsorption kinetics

A.A. Shklyaev and T. Suzuki, Initial reactive sticking coefficient of O_2 on Si(111)-7 × 7 at elevated temperatures 351 (1996) 64
M.C. Flowers, N.B.H. Jonathan, A. Morris and S. Wright, The adsorption and reactions of water on Si(100)-2 × 1 and Si(111)-7 × 7 surfaces 351 (1996) 87
A. Glebov, J.P. Toennies and H. Weiss, Structural and vibrational properties of the carbonyl sulfide (OCS) covered NaCl(100) surface 351 (1996) 200
E. Tomková, TDS spectra analysis 351 (1996) 309

Catalysis

O. Citri, R. Baer and R. Kosloff, The role of non adiabatic mechanisms in the dissociation dynamics of O_2 on silver surfaces 351 (1996) 24

Chemisorption

K.R. Wirth and J. Zegenhagen, STM study of the adsorption of single C_{60} molecules on the Ge(111)-c(2 × 8) surface 351 (1996) 13
H. Kato, K. Sawabe and Y. Matsumoto, Adsorbed states and thermal reactions of N_2O on Si(100) below room temperature: desorption induced by dissociation 351 (1996) 43
A.A. Shklyaev and T. Suzuki, Initial reactive sticking coefficient of O_2 on Si(111)-7 × 7 at elevated temperatures 351 (1996) 64
M.W. Radny, P.V. Smith and P.L. Cao, Chemisorption of fluorine onto the cluster modelled Si(111)7 × 7 surface: an ab initio Hartree–Fock/DFT study 351 (1996) 75
T. Fukuda, Random adatom heights in Ge/Si(111)-5 × 5 surfaces 351 (1996) 103
S. Watanabe, Vibrational study on Si(110) surface hydrogenated in solutions 351 (1996) 149
S. Tokumitsu, T. Anazawa, A. Tanabe, R. Sekine, E. Miyazaki, K. Edamoto, H. Kato and S. Otani, Interaction of hydrogen with ZrC(111) surface: angle-resolved photoemission study 351 (1996) 165

Dielectric phenomena

T. Inaoka, Carrier-concentration dependence of plasmon–polar phonon coupling at semiconductor surfaces 351 (1996) 259

Diffusion and migration

T. Doi, M. Ichikawa, S. Hosoki and K. Ninomiya, Surface migration of Si atoms based on the kinetics of a Si microcluster on a Si(001) surface 351 (1996) 135

Electron–solid interactions

R. Chakarova, Monte Carlo model of electron elastic scattering in solids 351 (1996) 303

Epitaxy

B. Voigtländer and A. Zinner, Structure of the Stranski–Krastanov layer in surfactant-mediated Sb/Ge/Si(111) epitaxy 351 (1996) L233
T. Fukuda, Random adatom heights in Ge/Si(111)-5 × 5 surfaces 351 (1996) 103
T. Kawamura, Multiple scattering calculation of RHEED from growth Si(001) surfaces 351 (1996) 129
Y. Li and A. DePristo, Predicted growth mode for metal homoepitaxy on the fcc (111) surface 351 (1996) 189
R. Strohmaier, C. Ludwig, J. Petersen, B. Gompf and W. Eisenmenger, STM investigations of NTCDA on weakly interacting substrates 351 (1996) 292

Etching

M.W. Radny, P.V. Smith and P.L. Cao, Chemisorption of fluorine onto the cluster modelled Si(111)7 × 7 surface: an ab initio Hartree–Fock/DFT study 351 (1996) 75

H.C. Lu, E.P. Gusev, E. Garfunkel and T. Gustafsson, An ion scattering study of the interaction of oxygen with Si(111): surface roughening and oxide growth 351 (1996) 111

Growth

T. Kawamura, Multiple scattering calculation of RHEED from growth Si(001) surfaces 351 (1996) 129

Y. Li and A. DePristo, Predicted growth mode for metal homoepitaxy on the fcc (111) surface 351 (1996) 189

Oxidation

H. Kato, K. Sawabe and Y. Matsumoto, Adsorbed states and thermal reactions of N_2O on Si(100) below room temperature: desorption induced by dissociation 351 (1996) 43

H. Kageshima and M. Tabe, Theoretical calculation of core level shifts for O/Si(111) surfaces 351 (1996) 53

A.A. Shklyaev and T. Suzuki, Initial reactive sticking coefficient of O_2 on Si(111)-7 × 7 at elevated temperatures 351 (1996) 64

M.C. Flowers, N.B.H. Jonathan, A. Morris and S. Wright, The adsorption and reactions of water on Si(100)-2 × 1 and Si(111)-7 × 7 surfaces 351 (1996) 87

H.C. Lu, E.P. Gusev, E. Garfunkel and T. Gustafsson, An ion scattering study of the interaction of oxygen with Si(111): surface roughening and oxide growth 351 (1996) 111

Photochemistry

G. Gilarowski, W. Erley and H. Ibach, Photochemical reactions of water adsorbed on Pt(111) 351 (1996) 156

Photoelectron emission

H. Kageshima and M. Tabe, Theoretical calculation of core level shifts for O/Si(111) surfaces 351 (1996) 53

Physical adsorption

H. Kato, K. Sawabe and Y. Matsumoto, Adsorbed states and thermal reactions of N_2O on Si(100) below room temperature: desorption induced by dissociation 351 (1996) 43

R. Strohmaier, C. Ludwig, J. Petersen, B. Gompf and W. Eisenmenger, STM investigations of NTCDA on weakly interacting substrates 351 (1996) 292

Surface chemical reaction

M.W. Radny, P.V. Smith and P.L. Cao, Chemisorption of fluorine onto the cluster modelled Si(111)7 × 7 surface: an ab initio Hartree–Fock/DFT study 351 (1996) 75

Surface electronic phenomena (work function, surface potential, surface states, etc.)

J.W. Kim, J.M. Seo and S. Kim, Surface electronic properties of Na/Ge(111)-3 × 1 351 (1996) L239

R. Strohmaier, C. Ludwig, J. Petersen, B. Gompf and W. Eisenmenger, STM investigations of NTCDA on weakly interacting substrates 351 (1996) 292

Surface melting

H. Sakai, Surface-induced melting of small particles 351 (1996) 285

Surface relaxation and reconstruction

B. Voigtländer and A. Zinner, Structure of the Stranski–Krastanov layer in surfactant-mediated Sb/Ge/Si(111) epitaxy 351 (1996) L233

L. Li and I.S.T. Tsong, Atomic structures of 6H–SiC (0001) and $(000\bar{1})$ surfaces 351 (1996) 141

W.G. Schmidt, A. Scholze and F. Bechstedt, Dimerized, buckled, or ideal chains on the diamond (111)2 × 1 surface? 351 (1996) 183

L. Bleckmann, O. Hunderi, W. Richter and E. Wold, Surface studies by means of 45° reflectometry 351 (1996) 277

Surface stress

B. Voigtländer and A. Zinner, Structure of the Stranski–Krastanov layer in surfactant-mediated Sb/Ge/Si(111) epitaxy 351 (1996) L233

Surface structure, morphology, roughness, and topography

B. Voigtländer and A. Zinner, Structure of the Stranski–Krastanov layer in surfactant-mediated Sb/Ge/Si(111) epitaxy 351 (1996) L233

V. Fernandez, K.-M. Schindler, O. Schaff, Ph. Hofmann, A. Theobald, A.M. Bradshaw, V. Fritzsche, R. Davis and D.P. Woodruff, Structure determination of a CO/O coadsorption phase on Ni(111) 351 (1996) 1

M.W. Radny, P.V. Smith and P.L. Cao, Chemisorption of fluorine onto the cluster modelled Si(111)7 × 7 surface: an ab initio Hartree–Fock/DFT study 351 (1996) 75

T. Fukuda, Random adatom heights in Ge/Si(111)-5 × 5 surfaces 351 (1996) 103

H.C. Lu, E.P. Gusev, E. Garfunkel and T. Gustafsson, An ion scattering study of the interaction of oxygen with Si(111): surface roughening and oxide growth 351 (1996) 111

T. Kawamura, Multiple scattering calculation of RHEED from growth Si(001) surfaces 351 (1996) 129

L. Li and I.S.T. Tsong, Atomic structures of 6H–SiC (0001) and $(000\bar{1})$ surfaces 351 (1996) 141

S. Watanabe, Vibrational study on Si(110) surface hydrogenated in solutions 351 (1996) 149

Y. Liang, A.S. Lea, D.R. Baer and M.H. Engelhard, Structure of the cleaved $CaCO_3(10\bar{1}4)$ surface in an aqueous environment 351 (1996) 172

L. Bleckmann, O. Hunderi, W. Richter and E. Wold, Surface studies by means of 45° reflectometry 351 (1996) 277

Surface thermodynamics (including phase transitions)

B. Voigtländer and A. Zinner, Structure of the Stranski–Krastanov layer in surfactant-mediated Sb/Ge/Si(111) epitaxy 351 (1996) L233

Surface waves

Phonons

S. Watanabe, Vibrational study on Si(110) surface hydrogenated in solutions 351 (1996) 149

A. Glebov, J.P. Toennies and H. Weiss, Structural and vibrational properties of the carbonyl sulfide (OCS) covered NaCl(100) surface 351 (1996) 200

T. Inaoka, Carrier-concentration dependence of plasmon–polar phonon coupling at semiconductor surfaces 351 (1996) 259

Plasmons

T. Inaoka, Carrier-concentration dependence of plasmon–polar phonon coupling at semiconductor surfaces 351 (1996) 259

Thermal desorption

H. Kato, K. Sawabe and Y. Matsumoto, Adsorbed states and thermal reactions of N_2O on Si(100) below room temperature: desorption induced by dissociation 351 (1996) 43

G. Gilarowski, W. Erley and H. Ibach, Photochemical reactions of water adsorbed on Pt(111) 351 (1996) 156

A. Glebov, J.P. Toennies and H. Weiss, Structural and vibrational properties of the carbonyl sulfide (OCS) covered NaCl(100) surface 351 (1996) 200

A.L. Schwaner, W. Mahmood and J.M. White, The thermal and electron-induced chemistry of $N_2O/Ag(111)$ 351 (1996) 228

T. Livneh, L. Romm and M. Asscher, Cage formation of N_2 under H_2O overlayer on Ru(001) 351 (1996) 250

E. Tomková, TDS spectra analysis 351 (1996) 309

Tunneling

R. Strohmaier, C. Ludwig, J. Petersen, B. Gompf and W. Eisenmenger, STM investigations of NTCDA on weakly interacting substrates 351 (1996) 292

Vibrations of adsorbed molecules

S. Watanabe, Vibrational study on Si(110) surface hydrogenated in solutions 351 (1996) 149

G. Gilarowski, W. Erley and H. Ibach, Photochemical reactions of water adsorbed on Pt(111) 351 (1996) 156

A. Glebov, J.P. Toennies and H. Weiss, Structural and vibrational properties of the carbonyl sulfide (OCS) covered NaCl(100) surface 351 (1996) 200

ELSEVIER

Surface Science 351 (1995) 340–342

surface science

Materials index

ELEMENTAL AND CHEMICAL IDENTITY

Elements

Alkali metals

J.W. Kim, J.M. Seo and S. Kim, Surface electronic properties of Na/Ge(111)-3 × 1 351 (1996) L239

Antimony

B. Voigtländer and A. Zinner, Structure of the Stranski–Krastanov layer in surfactant-mediated Sb/Ge/Si(111) epitaxy 351 (1996) L233

Copper

Y. Li and A. DePristo, Predicted growth mode for metal homoepitaxy on the fcc (111) surface 351 (1996) 189

Diamond

W.G. Schmidt, A. Scholze and F. Bechstedt, Dimerized, buckled, or ideal chains on the diamond (111)2 × 1 surface? 351 (1996) 183

Fluorine

M.W. Radny, P.V. Smith and P.L. Cao, Chemisorption of fluorine onto the cluster modelled Si(111)7 × 7 surface: an ab initio Hartree–Fock/DFT study 351 (1996) 75

Germanium

J.W. Kim, J.M. Seo and S. Kim, Surface electronic properties of Na/Ge(111)-3 × 1 351 (1996) L239
K.R. Wirth and J. Zegenhagen, STM study of the adsorption of single C_{60} molecules on the Ge(111)-c(2 × 8) surface 351 (1996) 13
T. Fukuda, Random adatom heights in Ge/Si(111)-5 × 5 surfaces 351 (1996) 103

Gold

Y. Li and A. DePristo, Predicted growth mode for metal homoepitaxy on the fcc (111) surface 351 (1996) 189

Hydrogen

S. Watanabe, Vibrational study on Si(110) surface hydrogenated in solutions 351 (1996) 149

Iron

T. Li and R.J. MacDonald, Inelastic energy loss and inner-shell electron promotion in low energy Ne ions scattered from Fe and Ni surfaces 351 (1996) 319

Nickel

V. Fernandez, K.-M. Schindler, O. Schaff, Ph. Hofmann, A. Theobald, A.M. Bradshaw, V. Fritzsche, R. Davis and D.P. Woodruff, Structure determination of a CO/O coadsorption phase on Ni(111) 351 (1996) 1
Y. Li and A. DePristo, Predicted growth mode for metal homoepitaxy on the fcc (111) surface 351 (1996) 189
T. Li and R.J. MacDonald, Inelastic energy loss and inner-shell electron promotion in low energy Ne ions scattered from Fe and Ni surfaces 351 (1996) 319

Nitrogen

T. Livneh, L. Romm and M. Asscher, Cage formation of N_2 under H_2O overlayer on Ru(001) 351 (1996) 250

Noble gases

J.W. Kim, J.M. Seo and S. Kim, Surface electronic properties of Na/Ge(111)-3 × 1 351 (1996) L239

Palladium

Y. Li and A. DePristo, Predicted growth mode for metal homoepitaxy on the fcc (111) surface 351 (1996) 189

Platinum

G. Gilarowski, W. Erley and H. Ibach, Photochemical reactions of water adsorbed on Pt(111) 351 (1996) 156
Y. Li and A. DePristo, Predicted growth mode for metal homoepitaxy on the fcc (111) surface 351 (1996) 189

Ruthenium

T. Livneh, L. Romm and M. Asscher, Cage formation of N_2 under H_2O overlayer on Ru(001) 351 (1996) 250

Silicon

B. Voigtländer and A. Zinner, Structure of the Stranski–Krastanov layer in surfactant-mediated Sb/Ge/Si(111) epitaxy 351 (1996) L233

H. Kato, K. Sawabe and Y. Matsumoto, Adsorbed states and thermal reactions of N_2O on Si(100) below room temperature: desorption induced by dissociation 351 (1996) 43
H. Kageshima and M. Tabe, Theoretical calculation of core level shifts for O/Si(111) surfaces 351 (1996) 53
A.A. Shklyaev and T. Suzuki, Initial reactive sticking coefficient of O_2 on Si(111)-7 × 7 at elevated temperatures 351 (1996) 64
M.W. Radny, P.V. Smith and P.L. Cao, Chemisorption of fluorine onto the cluster modelled Si(111)7 × 7 surface: an ab initio Hartree–Fock/DFT study 351 (1996) 75
M.C. Flowers, N.B.H. Jonathan, A. Morris and S. Wright, The adsorption and reactions of water on Si(100)-2 × 1 and Si(111)-7 × 7 surfaces 351 (1996) 87
T. Fukuda, Random adatom heights in Ge/Si(111)-5 × 5 surfaces 351 (1996) 103
H.C. Lu, E.P. Gusev, E. Garfunkel and T. Gustafsson, An ion scattering study of the interaction of oxygen with Si(111): surface roughening and oxide growth 351 (1996) 111
T. Kawamura, Multiple scattering calculation of RHEED from growth Si(001) surfaces 351 (1996) 129
T. Doi, M. Ichikawa, S. Hosoki and K. Ninomiya, Surface migration of Si atoms based on the kinetics of a Si microcluster on a Si(001) surface 351 (1996) 135
S. Watanabe, Vibrational study on Si(110) surface hydrogenated in solutions 351 (1996) 149
L. Bleckmann, O. Hunderi, W. Richter and E. Wold, Surface studies by means of 45° reflectometry 351 (1996) 277

Silver

O. Citri, R. Baer and R. Kosloff, The role of non adiabatic mechanisms in the dissociation dynamics of O_2 on silver surfaces 351 (1996) 24
Y. Li and A. DePristo, Predicted growth mode for metal homoepitaxy on the fcc (111) surface 351 (1996) 189
A.L. Schwaner, W. Mahmood and J.M. White, The thermal and electron-induced chemistry of N_2O/Ag(111) 351 (1996) 228
L. Bleckmann, O. Hunderi, W. Richter and E. Wold, Surface studies by means of 45° reflectometry 351 (1996) 277

Compounds (non-molecular solids)

Alkali halides

A. Glebov, J.P. Toennies and H. Weiss, Structural and vibrational properties of the carbonyl sulfide (OCS) covered NaCl(100) surface 351 (1996) 200

Calcite

Y. Liang, A.S. Lea, D.R. Baer and M.H. Engelhard, Structure of the cleaved $CaCO_3(10\bar{1}4)$ surface in an aqueous environment 351 (1996) 172

Carbides

S. Tokumitsu, T. Anazawa, A. Tanabe, R. Sekine, E. Miyazaki, K. Edamoto, H. Kato and S. Otani, Interaction of hydrogen with ZrC(111) surface: angle-resolved photoemission study 351 (1996) 165

Gallium arsenide

T. Inaoka, Carrier-concentration dependence of plasmon–polar phonon coupling at semiconductor surfaces 351 (1996) 259

Indium antimonide

T. Inaoka, Carrier-concentration dependence of plasmon–polar phonon coupling at semiconductor surfaces 351 (1996) 259

Magnesium oxides

Y. Aray and R.F.W. Bader, Requirements for activation of surface oxygen atoms in MgO using the Laplacian of the electron density 351 (1996) 233

Silicon carbide

L. Li and I.S.T. Tsong, Atomic structures of 6H–SiC (0001) and $(000\bar{1})$ surfaces 351 (1996) 141

Silicon oxides

H. Kageshima and M. Tabe, Theoretical calculation of core level shifts for O/Si(111) surfaces 351 (1996) 53
H.C. Lu, E.P. Gusev, E. Garfunkel and T. Gustafsson, An ion scattering study of the interaction of oxygen with Si(111): surface roughening and oxide growth 351 (1996) 111

Tungsten oxide

M. Akbulut, N.J. Sack and T.E. Madey, Adsorption and reaction of water on oxidized tungsten: thermal desorption and electron stimulated desorption measurements 351 (1996) 209

Molecules

Aromatics

R. Strohmaier, C. Ludwig, J. Petersen, B. Gompf and W. Eisenmenger, STM investigations of NTCDA on weakly interacting substrates 351 (1996) 292

Carbon monoxide

V. Fernandez, K.-M. Schindler, O. Schaff, Ph. Hofmann, A. Theobald, A.M. Bradshaw, V. Fritzsche, R. Davis and D.P. Woodruff, Structure determination of a CO/O coadsorption phase on Ni(111) 351 (1996) 1
E. Tomková, TDS spectra analysis 351 (1996) 309

Fullerenes

K.R. Wirth and J. Zegenhagen, STM study of the adsorption of single C_{60} molecules on the Ge(111)-c(2 × 8) surface 351 (1996) 13

Hydrogen

S. Tokumitsu, T. Anazawa, A. Tanabe, R. Sekine, E. Miyazaki, K. Edamoto, H. Kato and S. Otani, Interaction of hydrogen with ZrC(111) surface: angle-resolved photoemission study 351 (1996) 165

Nitrogen

A.L. Schwaner, W. Mahmood and J.M. White, The thermal and electron-induced chemistry of N_2O/Ag(111) 351 (1996) 228

Nitrogen oxides

H. Kato, K. Sawabe and Y. Matsumoto, Adsorbed states and thermal reactions of N_2O on Si(100) below room temperature: desorption induced by dissociation 351 (1996) 43

A.L. Schwaner, W. Mahmood and J.M. White, The thermal and electron-induced chemistry of N_2O/Ag(111) 351 (1996) 228

Oxygen

V. Fernandez, K.-M. Schindler, O. Schaff, Ph. Hofmann, A. Theobald, A.M. Bradshaw, V. Fritzsche, R. Davis and D.P. Woodruff, Structure determination of a CO/O coadsorption phase on Ni(111) 351 (1996) 1

A.A. Shklyaev and T. Suzuki, Initial reactive sticking coefficient of O_2 on Si(111)-7 × 7 at elevated temperatures 351 (1996) 64

A.L. Schwaner, W. Mahmood and J.M. White, The thermal and electron-induced chemistry of N_2O/Ag(111) 351 (1996) 228

Water

M.C. Flowers, N.B.H. Jonathan, A. Morris and S. Wright, The adsorption and reactions of water on Si(100)-2 × 1 and Si(111)-7 × 7 surfaces 351 (1996) 87

G. Gilarowski, W. Erley and H. Ibach, Photochemical reactions of water adsorbed on Pt(111) 351 (1996) 156

M. Akbulut, N.J. Sack and T.E. Madey, Adsorption and reaction of water on oxidized tungsten: thermal desorption and electron stimulated desorption measurements 351 (1996) 209

T. Livneh, L. Romm and M. Asscher, Cage formation of N_2 under H_2O overlayer on Ru(001) 351 (1996) 250

PHYSICAL STATE

Surfaces

Single crystal surfaces

O. Citri, R. Baer and R. Kosloff, The role of non adiabatic mechanisms in the dissociation dynamics of O_2 on silver surfaces 351 (1996) 24

M.W. Radny, P.V. Smith and P.L. Cao, Chemisorption of fluorine onto the cluster modelled Si(111)7 × 7 surface: an ab initio Hartree–Fock/DFT study 351 (1996) 75

T. Kawamura, Multiple scattering calculation of RHEED from growth Si(001) surfaces 351 (1996) 129

Y. Aray and R.F.W. Bader, Requirements for activation of surface oxygen atoms in MgO using the Laplacian of the electron density 351 (1996) 233

T. Li and R.J. MacDonald, Inelastic energy loss and inner-shell electron promotion in low energy Ne ions scattered from Fe and Ni surfaces 351 (1996) 319

Low index single crystal surfaces

J.W. Kim, J.M. Seo and S. Kim, Surface electronic properties of Na/Ge(111)-3 × 1 351 (1996) L239

V. Fernandez, K.-M. Schindler, O. Schaff, Ph. Hofmann, A. Theobald, A.M. Bradshaw, V. Fritzsche, R. Davis and D.P. Woodruff, Structure determination of a CO/O coadsorption phase on Ni(111) 351 (1996) 1

H. Kato, K. Sawabe and Y. Matsumoto, Adsorbed states and thermal reactions of N_2O on Si(100) below room temperature: desorption induced by dissociation 351 (1996) 43

H. Kageshima and M. Tabe, Theoretical calculation of core level shifts for O/Si(111) surfaces 351 (1996) 53

T. Fukuda, Random adatom heights in Ge/Si(111)-5 × 5 surfaces 351 (1996) 103

H.C. Lu, E.P. Gusev, E. Garfunkel and T. Gustafsson, An ion scattering study of the interaction of oxygen with Si(111): surface roughening and oxide growth 351 (1996) 111

S. Watanabe, Vibrational study on Si(110) surface hydrogenated in solutions 351 (1996) 149

S. Tokumitsu, T. Anazawa, A. Tanabe, R. Sekine, E. Miyazaki, K. Edamoto, H. Kato and S. Otani, Interaction of hydrogen with ZrC(111) surface: angle-resolved photoemission study 351 (1996) 165

W.G. Schmidt, A. Scholze and F. Bechstedt, Dimerized, buckled, or ideal chains on the diamond (111)2 × 1 surface? 351 (1996) 183

A. Glebov, J.P. Toennies and H. Weiss, Structural and vibrational properties of the carbonyl sulfide (OCS) covered NaCl(100) surface 351 (1996) 200

Vicinal single crystal surfaces

T. Doi, M. Ichikawa, S. Hosoki and K. Ninomiya, Surface migration of Si atoms based on the kinetics of a Si microcluster on a Si(001) surface 351 (1996) 135

Interfaces

Solid–liquid interfaces

T. Livneh, L. Romm and M. Asscher, Cage formation of N_2 under H_2O overlayer on Ru(001) 351 (1996) 250

ELECTRICAL AND MAGNETIC BEHAVIOR

Surfaces and/or films

Semiconducting surfaces

H. Kageshima and M. Tabe, Theoretical calculation of core level shifts for O/Si(111) surfaces 351 (1996) 53

Interfaces

Metal–semiconductor interfaces

J.W. Kim, J.M. Seo and S. Kim, Surface electronic properties of Na/Ge(111)-3 × 1 351 (1996) L239

Heterostructures and thin film structures

Metal–oxide–semiconductor (MOS) structures

H.C. Lu, E.P. Gusev, E. Garfunkel and T. Gustafsson, An ion scattering study of the interaction of oxygen with Si(111): surface roughening and oxide growth 351 (1996) 111

Semiconductor–semiconductor thin film structures

T. Fukuda, Random adatom heights in Ge/Si(111)-5 × 5 surfaces 351 (1996) 103